Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-07-22 **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 12-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 13-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-07-22 **Date: 11-12-19**

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 12-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 13-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-07-22

Date: 15-11-19

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 12-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 12-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-07-22** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	12-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-07-22** **Date: 15-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-07-22 **Date: 26-11-19**

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 22-11-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 22/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-07-22

Date: 26-11-19

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 22-11-19

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 22/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.41	250.48	3.116	31539	180.9	5.7	5.3	6.7
2	Cover Slab-2	200.59	250.52	3.122	31596	182.3	5.8	5.4	6.7
3	Cover Slab-3	200.40	250.51	3.118	31536	181.5	5.8	5.4	6.7

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 17/12/2019

Lab ID	:	CP-2020-01-07-22
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	151.99 X 149.30 X 149.29	22692	8.688	539.6	23.8	23.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.94 X 151.77 X 149.09	22909	8.220	524.0	22.9	
3	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.35 X 149.76 X 150.95	22516	8.367	527.1	23.4	

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 26/11/2019

Lab ID	:	CP-2020-01-07-22
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.75 X 149.19 X 150.57	22340	8.171	404.5	18.1	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.42 X 151.32 X 151.58	22611	8.299	428.2	18.9	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.28 X 150.45 X 150.66	22760	8.612	425.7	18.7	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2019

Lab ID	:	**CP-2020-01-07-22**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.74 X 150.14 X 149.91	22783	8.171	416.1	18.3	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.74 X 151.72 X 149.65	22719	8.299	425.8	18.7	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.83 X 150.18 X 149.78	22501	8.612	424.8	18.9	

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-01-07-22

Date: 26/11/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.82 X 151.32 X 150.48	22822	8.171	425.6	18.6	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.80 X 150.78 X 150.30	22587	8.299	413.3	18.3	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.32 X 149.09 X 150.16	22411	8.612	410.1	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 30/11/2019

Lab ID	:	CP-2020-01-07-22
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	25-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.27 X 150.70 X 150.26	22646	8.171	414.7	18.3	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.11 X 150.86 X 149.68	22495	8.299	418.6	18.6	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.00 X 151.82 X 150.40	22773	8.612	420.2	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22 **Date: 30/11/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.58 X 151.90 X 150.29	23024	8.171	418.7	18.2	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.07 X 149.11 X 151.22	22378	8.299	424.4	19 0	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.10 X 151.22 X 151.83	22849	8.612	420 5	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-01-07-22

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Date: 30/11/2019

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.50 X 150.32 X 151.14	22473	8.171	414.9	18.5	18.4
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.75 X 150.76 X 149.11	22576	8.299	418.7	18.5	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.46 X 149.78 X 149.47	22536	8.612	411.1	18.2	

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CIVIL Pro BANGALORE Sig. Date

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2019

Lab ID	:	**CP-2020-01-07-22**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	25-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.05 X 151.96 X 150.18	22651	8.171	418.3	18.5	18.6
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.72 X 150.24 X 151.81	22644	8.299	422.8	18.7	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.12 X 150.58 X 149.50	22455	8.612	422.2	18.8	

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 03/12/2019

Lab ID : CP-2020-01-07-22

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	26/11/2019	03/12/2019	149.87 X 150.22 X 149.36	22514	8.171	405.8	18.0	18.6
2	Culvert Concrete	M20	26/11/2019	03/12/2019	149.65 X 151.36 X 150.67	22651	8.299	429.1	18.9	
3	Culvert Concrete	M20	26/11/2019	03/12/2019	149.80 X 150.12 X 150.29	22489	8.612	424.9	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2019

Lab ID	:	**CP-2020-01-07-22**
Project Name	:	Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/159/2019-20
Date of Receipt	:	28-11-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	26/11/2019	03/12/2019	149.14 X 150.20 X 151.03	22402	8.171	408.9	18.3	18.4
2	Culvert Concrete	M20	26/11/2019	03/12/2019	150.90 X 149.78 X 149.31	22602	8.299	418.0	18.5	
3	Culvert Concrete	M20	26/11/2019	03/12/2019	150.75 X 150.67 X 151.67	22713	8.612	415.9	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 03/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	26/11/2019	03/12/2019	151.97 X 150.73 X 149.19	22907	8.171	423.5	18.5	18.2
2	Culvert Concrete	M20	26/11/2019	03/12/2019	150.43 X 150.36 X 149.55	22618	8.299	411.5	18.2	
3	Culvert Concrete	M20	26/11/2019	03/12/2019	149.17 X 149.48 X 151.24	22299	8.612	402.3	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 06/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.55 X 151.24 X 151.33	22921	8.710	574.9	25.1	25.2
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.67 X 149.68 X 149.99	22552	8.125	589.9	26.2	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	149.58 X 150.58 X 151.48	22524	8.865	547.9	24.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 06/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.05 X 149.32 X 151.94	22555	8.710	566.0	25.1	25.5
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.45 X 150.03 X 149.21	22572	8.125	598.4	26.5	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	149.65 X 151.34 X 149.68	22648	8.865	565.8	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 27/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	150.74 X 149.44 X 151.43	22526	8.478	764.6	33.9	33.3
2	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	150.03 X 149.90 X 149.07	22491	8.584	729.9	32.5	
3	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	149.51 X 151.87 X 150.18	22707	8.484	762.0	33.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 06/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.77 X 150.22 X 150.80	22799	8.710	570.2	25.0	25.4
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	149.73 X 149.85 X 150.49	22436	8.125	591.7	26.4	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.41 X 149.61 X 151.51	22653	8.865	563.3	24.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22 Date: 27/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	150.88 X 151.08 X 149.78	22794	8.478	766.5	33.6	33.1
2	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	149.19 X 149.34 X 150.52	22280	8.584	714.2	32.1	
3	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	150.24 X 149.56 X 151.47	22470	8.484	752.4	33.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22 **Date: 06/12/2019**

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.32 X 151.45 X 150.94	22918	8.710	590.2	25.8	25.8
2	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	151.72 X 149.00 X 151.11	22606	8.125	605.0	26.8	
3	Cement Concrete Pavement	M30	29/11/2019	06/12/2019	150.43 X 150.64 X 150.80	22661	8.865	566.4	25.0	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-22

Date: 27/12/2019

Project Name : Improvements to Roads and Drains at Kenchenahalli, Harohalli and Nagenahalli SC-ST Areas in Ward No. 02 of Yelahanka Sub Division.

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhasyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/159/2019-20

Date of Receipt : 02-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	149.97 X 151.67 X 149.16	22747	8.478	767.7	33.7	33.3
2	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	151.23 X 149.40 X 150.40	22594	8.584	727.4	32.2	
3	Cement Concrete Pavement	M30	29/11/2019	27/12/2019	149.51 X 151.99 X 151.03	22723	8.484	770.1	33.9	

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